

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A conformal load-bearing antenna assembly comprising:

a pan providing structural rigidity and shaped to fit within an aircraft window opening;

an antenna element disposed within the pan; ~~and~~

a connection for coupling a signal to the antenna element; and

a conductive gasket positioned adjacent to the perimeter of the antenna assembly, electrically bonding the antenna assembly to an aircraft fuselage and providing a pressure seal.

2. (Original) The antenna assembly of claim 1, wherein the antenna element comprises a stripline supported by a dielectric sheet, and at least one radiating element coupled to the stripline.

3. (Currently Amended) ~~The antenna structure of claim 2,~~ A conformal load-bearing antenna assembly comprising:

a pan providing structural rigidity and shaped to fit within an aircraft window opening;

an antenna element disposed within the pan, wherein the antenna element comprises a stripline supported by a dielectric sheet, and at least one radiating element coupled to the stripline; and

a connection for coupling a signal to the antenna element;

wherein the antenna element further comprises a front ground plane and a back ground plane, with the front ground plane forming one or more slots adjacent to the radiating element.

4. (Canceled)

5. (Currently Amended) The antenna assembly ~~structure~~ of claim 1, wherein the pan forms a pressure seal with the aircraft window opening.

6. (Currently Amended) The antenna assembly ~~structure~~ of claim 1, further comprising a bonding strap for carrying lightning currents from the antenna assembly ~~structure~~ to a fuselage of the aircraft.

7. (Currently Amended) The antenna assembly ~~structure~~ of claim 3, wherein the front ground plane and the back ground plane are electrically bonded to each other.

8. (Currently Amended) The antenna assembly ~~structure~~ of claim 3, wherein the back ground plane is electrically bonded to the pan.

9. (Previously Presented) The antenna assembly of claim 1, wherein the antenna element comprises a tapered stripline.

10. (Previously Presented) The antenna assembly of claim 1, wherein the pan forms a cavity behind the antenna element.

11. (Previously Presented) The antenna assembly of claim 1, wherein the pan is a structural replacement for a window plug.

12. (Previously Presented) The antenna assembly of claim 1, further comprising:

a radio frequency connector mounted in the pan.

13. (Previously Presented) The antenna assembly of claim 1, wherein the pan forms a pressure seal over a window opening.